DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-024485 Address: 333 Burma Road **Date Inspected:** 03-Jun-2011

City: Oakland, CA 94607

Project Name: SAS Superstructure **OSM Arrival Time:** 700 **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes An Qing Xiang No Yes N/A **Rod Oven in Use:** Yes **Inspected CWI report:** No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A **Qualified Welders:** Yes No N/A **Verified Joint Fit-up:** Yes No N/A N/A N/A **Approved Drawings:** Yes No **Approved WPS:** Yes No Yes N/A **Delayed / Cancelled:** No

Bridge No: 34-0006 **Component: OBG** Components

Summary of Items Observed:

On this day CALTRANS OSM Quality Assurance (QA) Inspector, Anand Upadhye was present during the times noted above for observations relative to the work being performed.

NDT

Outside Yard – OBG Trial Assembly

The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted notification number 09351.

Magnetic Particle Testing (MT).

This QA inspector performed MT of approximately 15 % of the area previously tested and accepted by ZPMC Quality control personnel. This QA inspector generated MT report for this date. The members are identified as OBG Components. The weld designations reviewed are as follows:

SA3013A-001-011, 012, 021, 022, 037, 038, 203, 217, 233.

SA3013-001-259, 260, 249, 250, 237, 238, 227, 228, 217, 218, 211, 212.

WELDING

This QA Inspector observed the following work in progress:

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Outside Yard – OBG Trial Assembly

This QA Inspector observed ZPMC qualified welding personnel identified as 069095 perform welding by Shielded Metal Arc Welding (SMAW), on Sub Assembly part SA3416C to Floor beam weld at panel point 128.3 of OBG Segment 14W. Weld joint is identified as SEG3020E-016. ZPMC Quality Control (QC) Inspector identified as Zhu Lin was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2114-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 067610 perform welding by Shielded Metal Arc Welding (SMAW), on longitudinal diaphragm to Sub Assembly part SA3416C weld between panel point 128 and 128.3 of OBG Segment 14W. Weld joint is identified as SEG3020Y-018, 019. ZPMC Quality Control (QC) Inspector identified as Zhu Lin was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2114-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 069896 perform welding by Shielded Metal Arc Welding (SMAW), on longitudinal diaphragm I Rib stiffener weld of OBG Segment 14W. Weld joint is identified as SEG3020Y-047/048. ZPMC Quality Control (QC) Inspector identified as Zhu Lin was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2114-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 068493 perform repair welding by Shielded Metal Arc Welding (SMAW), on Floor beam I Rib stiffener to I Rib stiffener weld at panel point 126 of OBG Segment 14W. Weld joint is identified as SEG3020Q-091, 096. ZPMC Quality Control (QC) Inspector identified as Zhu Lin was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-345-SMAW-1G-FCM-Repair-1, which is used as per welding repair report B-WR21174.

This QA Inspector observed ZPMC qualified NDT personnel perform Ultrasonic Testing on Side plate I Rib stiffener to Floor beam welds at panel point 128.7 of OBG Segment 14W. Weld joints are identified as SEG3020C-064 ~ 086. Weld numbers SEG3020C-064, 071, 073, 080, 085, 086 were marked for repair by ZPMC personnel, as Class A reject able indications were found on these welds. See attached picture.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

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Summary of Conversations:

No significant conversations were reported on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, phone: 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Upadhye,Anand	Quality Assurance Inspector
Reviewed By:	Clifford,William	QA Reviewer